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## NOTICE OF ALLOWANCE AND FEE(S) DUE

Stolowitz Ford Cowger LLP  
621 SW Morrison St  
Suite 600  
Portland, OR 97205

03/28/2008

EXAMINER	
LEE, CHEUKFAN	
ART UNIT	PAPER NUMBER
2625	
DATE MAILED: 03/28/2008	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,700	08/08/2002	Wen-Chao Tseng	9585-0324	9327

TITLE OF INVENTION: DOUBLE-SIDE IMAGE SCANNER AND SCANNING METHOD OF THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/30/2008

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,700	08/08/2002	Wen-Chao Tseng	9585-0324	9327
73552	7590	03/28/2008	EXAMINER	
Stolowitz Ford Cowger LLP 621 SW Morrison St Suite 600 Portland, OR 97205			LEE, CHEUKFAN	
			ART UNIT	PAPER NUMBER
			2625	
DATE MAILED: 03/28/2008				

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 735 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 735 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
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**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

73552 7590 03/28/2008

**Stolowitz Ford Cowger LLP**  
621 SW Morrison St  
Suite 600  
Portland, OR 97205

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,700	08/08/2002	Wen-Chao Tseng	9585-0324	9327

**TITLE OF INVENTION:** DOUBLE-SIDE IMAGE SCANNER AND SCANNING METHOD OF THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/30/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
LEE, CHEUKFAN	2625	358-498000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a **Customer Number** is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 \_\_\_\_\_  
 2 \_\_\_\_\_  
 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee  
☐ Publication Fee (No small entity discount permitted)  
☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.  
☐ Payment by credit card. Form PTO-2038 is attached.  
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# Notice of Allowability

Application No.

10/064,700

Examiner

Cheukfan Lee

Applicant(s)

TSENG, WEN-CHAO

Art Unit

2625

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to an RCE and Information disclosure statement filed June 21, 2007.
2. ☒ The allowed claim(s) is/are 1,3-37,53, and 54, now renumbered 1-38, respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 6/21/2007
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
Cheukfan Lee



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1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

This examiner's amendment to list a complete set of claims is necessary for placing the application in condition for allowance.

2. **Examiner's Amendment – Listing of a Complete Set of Claims**

The amendment starts from the next page.

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1. (Previously Presented) A double-side image scanner module, comprising:

a paper feeder, further comprising:

a paper-feeding through-channel capable of transmitting a document, the paper-feeding through channel further comprising:

a first-side scanning region,

a second-side scanning region, aligned with the first-side scanning region, and

a paper-turning region, between the first-side scanning region and the second-side scanning region, said paper-turning region capable of turning the document up side down;

one image extraction apparatus, aligned with both the first- and second-side scanning regions, said one image extraction apparatus capable of extracting images of the first and second sides of the document through the first- and second-side scanning regions, respectively, and

a light transparent channel from both the first- and the second-side scanning regions to the image extraction apparatus, the light transparent channel capable of passing light between the image extraction apparatus and the first and second sides of the documents located at the first- and second-side scanning regions, respectively.

2. (Cancelled)

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3. (Previously Presented) The double-side image scanner module according to claim 1, wherein the image extraction apparatus is capable of being driven to enter the light transparent channel immediately under the first-side scanning region to scan the first side, and immediately under the second-side scanning region to scan the second side.

4. (Previously Presented) The double-side image scanner module according to claim 1, wherein the image extraction apparatus is capable of being driven to obtain a constant distance to the first-side scanning region and to the second-side scanning region.

5. (Original) The double-side image scanner module according to claim 1, wherein the distance between the first-side scanning region and the second-side scanning region is no less than the length of the document.

6. (Previously Presented) The double-side image scanner module according to claim 1, wherein the paper-turning region has a length no less than the length of the document.



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7. (Previously Presented) The double-side image scanner module according to claim 1, wherein the image extraction apparatus includes a light source capable of adjusting according to images of the first and second sides of the document.

8. (Previously Presented) The double-side image scanner according to claim 1, wherein the image extraction apparatus includes an adjustable light source capable of allowing images of both the first and second sides of the document extracted by the image extraction apparatus with substantially identical quality.

9. (Previously Presented) The double-side image scanner according to claim 1, further comprising a plurality of document transmission members along the paper-feeding through-channel capable of transmitting the document, wherein the document transmission members include a plurality of rollers.

10. (Previously Presented) The double-side image scanner module according to claim 1, wherein the paper feeder further comprises a first sensor capable of detecting the document entering the first-side scanning region, and a second sensor capable of detecting the document entering the second-side scanning region.

11. (Previously Presented) The double-side image scanner module according to claim 10, wherein the first and second sensors are capable of switching on/off manually to determine which side of the document is to be scanned.

12. (Previously Presented) The double-side image scanner module according to claim 10, wherein the first and second sensors are in electrical or optical communication with the image extraction apparatus, and are capable of transmitting a signal to the image extraction apparatus upon detection of the document.

13. (Previously Presented) The double-side image scanner module according to claim 12, wherein the image extraction device includes a light source capable of adjusting according to the detection of the document by the first and second sensors.

14. (Previously Presented) A double-side image scanner module, comprising:

a paper feeder, further comprising:

a first paper-transmission channel capable of receiving a document with a first side thereof facing downwardly,

a second paper-transmission channel capable of receiving the document with a second side thereof facing downwardly, and

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a paper-turning region, connected between the first and second paper-transmission channels to transmit the document from the first paper-transmission channel to the second paper-transmission channel;

an image extraction apparatus capable of extracting images of the first and second sides of the document;

a light transparent channel extending between the first or the second paper-transmission channel and the image extraction apparatus; and

wherein the image extraction apparatus is capable of being driven to adjust a distance between the image extraction apparatus and the first and second paper-transmission channels when the first or second sides of the document are to be scanned through the light transparent channel.

15. (Previously Presented) The double-image scanner according to claim 14, wherein the image extraction apparatus is capable of being driven to enter the light transparent channel immediately under the first-side scanning region, and immediately under the second-side scanning region.

16. (Previously Presented) The double-side image scanner module according to claim 14, wherein the image extraction apparatus is capable of being driven to obtain a

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constant distance to the first-side scanning region and to the second-side scanning region.

17. (Previously Presented) The double-side image scanner according to claim 14, further comprising a plurality of transmission members along the first paper-transmission channel, the paper-turning region and the second paper-transmission channel, the plurality of transmission members capable of transmitting the document, and wherein the plurality of document transmission members include a plurality of rollers.

18. (Previously Presented) The double-side image scanner according to claim 14, wherein the second paper-transmission channel is substantially parallel to the first paper transmission channel, and wherein the paper-turning region is substantially perpendicular to both the first and the second paper-transmission channels.

19. (Original) The double-side image scanner according to claim 14, wherein the first paper-transmission channel is positioned above the second paper-transmission channel.

20. (previously Presented) The double-side image scanner according to claim 14, further comprising a first sensor substantially located at the first paper-transmission channel and a second sensor substantially located at the paper-turning region, said first and second sensors capable of selectively activating single-side scanning between the first and the second sides or double-side scanning thereof.

21. (previously Presented) The double-side image scanner module according to claim 14, wherein the image extraction apparatus further comprises an adjustable light source capable of allowing the images of the first and second sides of the document extracted thereby to have substantially identical quality.

22. (Previously Presented) The double-side image scanner module according to claim 14, wherein the first paper-transmission channel, the paper-turning region, and the second paper-transmission channel construct a substantially U-shaped paper-feeding through-channel.

23. (Previously Presented) A scanning method, comprising:  
  
feeding a document into a paper-feeding through-channel of a double-side image scanner module with a first side of the document facing an image extraction apparatus while passing over a light transparent channel;

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scanning an image of the first side by the image extraction apparatus through the light transparent channel;

transmitting the document along the paper-feeding through-channel until a second side of the document is facing the image extraction apparatus while passing over the light transparent channel at a different height; and

scanning an image of the second side by the image extraction apparatus through the light transparent channel.

24. (Previously Presented) The method according to claim 23, further comprising adjusting a light source of the image extraction apparatus before scanning the first side of the document.

25. (Previously Presented) The method according to claim 24, further comprising adjusting a light source of the image extraction apparatus before scanning the second side of the document.

26. (Previously Presented) The method according to claim 23, further comprising adjusting a distance between the first side and the image extraction apparatus before scanning the first side.

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27. (Previously Presented) The method according to claim 23, further comprising adjusting a distance between the second side and the image extraction apparatus before scanning the second side.

28. (Previously Presented) A scanning method comprising:

feeding a document into a first paper-transmission region with a first side of the document facing an image extraction apparatus;

adjusting a light source emitting light incident onto the first side when the first side is to be scanned, so as to obtain an image thereof;

transmitting the document through a paper-turning region and turning the document with a second side of the document facing the image extraction apparatus;  
and

adjusting the light source emitting light incident onto the second side when the second side is to be scanned, so as to obtain an image of the second side.

29. (Previously Presented) The method according to claim 28, further comprising determining whether the first side is to be scanned, wherein the light source remains unchanged when the first side is not to be scanned.

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30. (Previously Presented) The method according to claim 28, further comprising determining whether the second side is to be scanned, wherein the light source remains unchanged when the second side is not to be scanned.

31. (Previously Presented) The method according to claim 28, wherein the light source is so adjusted for scanning the first side and the second side that the quality of the images obtained therefrom is substantially identical.

32. (Previously Presented) A scanning method comprising:

feeding a document into a first paper-transmission region with a first side of the document facing an image extraction apparatus;

adjusting a distance between the image extraction apparatus and the first side when the first side is to be scanned, so as to obtain an image thereof;

transmitting the document through a paper-mining region and turning the document with a second side of the document facing the image extraction apparatus;  
and

adjusting a distance between the image extraction apparatus and the second side when the second side is to be scanned, so as to obtain an image of the second side.



33. (Previously Presented) The method according to claim 32, wherein the distance between the image extraction apparatus and the first side is substantially the same as that between the image extraction apparatus and the second side.

34. (Previously Presented) The method according to claim 33, wherein the distance between the image extraction apparatus to the first and the second sides are so adjusted to obtain substantially the same image quality from the first and second sides.

35. (Previously Presented) The method according to claim 32, further comprising determining whether the first side is to be scanned and determining whether the second side is to be scanned.

36. (Previously Presented) The method according to claim 32, wherein the first side of the document faces the image extraction apparatus while passing over a light transparent channel and the second side of the document faces the image extraction apparatus while passing over the light transparent channel at a different height.

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37. (Previously Presented) The method according to claim 28, wherein the first side of the document faces the image extraction apparatus while passing over a light transparent channel and the second side of the document faces the image extraction apparatus while passing over the light transparent channel at a different height.

Claims 38-52. (Cancelled)

53. (Previously Presented) An apparatus, comprising:

a paper-feeding through-channel, comprising a first-side scanning region, a second-side scanning region, and a paper-turning region, wherein the paper-turning region is positioned between the first-side scanning region and the second-side scanning region and is capable of turning a document up side down between the first and second side scanning regions, and

an image extraction apparatus capable of extracting images of the first and second sides of the document through the first- and second-side scanning regions, respectively, wherein the image extraction apparatus comprises a light source capable of adjusting according to images of the first and second sides of the document.

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54. (Previously Presented) The apparatus of claim 53, wherein the image extraction apparatus is capable of being driven to obtain a constant distance to the first-side scanning region and to the second-side scanning region.

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3. Claims 1, 3-37, 53, and 54 are allowed. Claims 1, 14, 23, 28, 32, and 53 are independent.

4. Please also note the Examiner's Amendment in the Office action mailed April 25, 2007/January 26, 2007 (the Examiner's action dated January 26, 2007), for changes made to the claims.

5. The two U.S. references listed in the PTO-1449 of the information disclosure statement filed June 21, 2007, namely, U.S. Patent Nos. 6,563,611 and 4,536,077, were cited by Examiner in the Office action mailed January 11, 2006.

6. The following is an examiner's statement of reasons for allowance:

The statements of allowance below are also based on the Examiner's Amendment mailed April 25, 2007.

Claims 1, 3-37, 53, and 54 were indicated allowed in the Final Office Action mailed October 30, 2006.

Independent claim 1 is allowable over the prior art of record because the prior art double-side image scanners do not include the light transparent channel from both the first and second side scanning regions to the image extraction apparatus, in combination with all other limitations of claim 1. The prior art Stoffel (U.S. Patent No.

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4,536,077) does not teach the light transparent channel from both the first and second side scanning region as claimed.

Claims 3-13 depend on claim 1 directly or indirectly.

Independent claim 14 is allowable over the prior art of record because the prior art does not teach the claimed light transparent channel extending between the first or the second paper-transmission channel and the image extraction apparatus, the image extraction apparatus capable of being driven to adjust a distance between the image extraction apparatus and the first and second paper-transmission channels when the first or second side of the document is to be scanned through the light transparent channel, in combination with other limitations of claim 14.

Claims 15-22 depend on claim 14 directly.

Independent claim 23 is allowable because the prior art of record does not teach a scanning method as claimed. The prior art Stoffel (4,536,077) does not teach scanning an image of the first side by the image extraction apparatus through the light transparent channel and scanning an image of the second side by the image extraction apparatus through the light transparent channel, in combination with all other limitations of claim 23. Stoffel discloses two light channels for the two scanning steps for the first side and second side, respectively.

Claims 24-27 depend on claim 23 directly or indirectly.

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Independent claim 28 is allowable because the prior art of record does not teach a scanning method comprising adjusting a light source emitting light incident onto the first side when the first side is to be scanned for an image of the first side, transmitting the document through a paper-turning region and turning the document with a second side of the document facing the image extraction apparatus, and adjusting the light source emitting light incident onto the second side when the Second side is to be scanned for an image of the second side, in combination with the other limitations of claim 28.

Claims 29-31 and 37 depend on claim 28 directly.

Independent claim 32 is allowable because the prior art of record does not teach a scanning method comprising adjusting a distance between the image extraction apparatus and the first side of the document when the first side is to be scanned for an image of the first side, transmitting the document through a paper-turning region and turning the document with a second side of the document facing the image extraction apparatus, and adjusting a distance between the image extraction apparatus and the second side of the document when the second side is to be scanned for an image of the second side, in combination with the other limitations of claim 32.

Claims 33-36 depend on claim 32 directly or indirectly.

Independent claim 53 is allowable because the prior art of record does not teach an apparatus as claimed, comprising the image extraction apparatus capable of

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extracting images of the first and seconds of the document through the first-and second-side scanning regions, respectively, of the paper-feeding through-channel defined in claim 53, the image extraction apparatus comprising a light source capable of being adjusted according to images of the first and second sides of the document, in combination with other limitations of claim 53.

Claim 54 depends on claim 53.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cheukfan Lee whose telephone number is (571) 272-7407. The examiner can normally be reached on 9:30 a.m. to 6:00 p.m., Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on (571) 272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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